SEQUENCE LISTING

<110> Glimcher, Laurie H.
      Szabo, Susanne, J.

<120> T-BET COMPOSITIONS AND METHODS OF USE THEREOF

<130> HUI-040PC

<140> US 10/008/264
<141> 2001-12-03

<150> PCT/US00/17545
<151> 2000-06-01

<150> US 60/137085
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<170> PatentIn Ver. 2.0

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ccg atg ccg ggg agc gac gag ggc cgg gcg cct ggc gcc gac ccg cag   96
Pro Met Pro Gly Ser Asp Glu Gly Arg Ala Pro Gly Ala Asp Pro Gln
            20   25   30

cac cgc tac ttc tac ccg gag ccg ggc gcg cag gac gcg gac gag cgt   144
His Arg Tyr Phe Tyr Pro Glu Pro Gly Ala Gln Asp Ala Asp Glu Arg
        35   40   45

cgc ggg ggc ggc agc ctg ggg tct ccc tac ccg ggg ggc gcc ttg gtg   192
Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val
    50   55   60

ccc gcc ccg ccg agc cgc ttc ctt gga gcc tac gcc tac ccg ccg cga   240
Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg
65   70   75   80

ccc cag gcg gcc ggc ttc ccc ggc gcg ggc gag tcc ttc ccg ccg ccc   288
Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro
                85   90   95

gcg gac gcc gag ggc tac cag ccg ggc gag ggc tac gcc gcc ccg gac   336
Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp
            100   105   110

ccg cgc gcc ggg ctc tac ccg ggg ccg cgt gag gac tac gcg cta ccc   384

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              Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro
                      115                 120                 125

gcg gga ctg gag gtg tcg ggg aaa ctg agg gtc gcg ctc aac aac cac      432
Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His
    130                 135                 140

ctg ttg tgg tcc aag ttt aat cag cac cag aca gag atg atc atc acc      480
Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr
145                 150                 155                 160

aag cag gga cgg cgg atg ttc cca ttc ctg tca ttt act gtg gcc ggg      528
Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly
                165                 170                 175

ctg gag ccc acc agc cac tac agg atg ttt gtg gac gtg gtc ttg gtg      576
Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val
                180                 185                 190

gac cag cac cac tgg cgg tac cag agc ggc aag tgg gtg cag tgt gga      624
Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly
                195                 200                 205

aag gcc gag ggc agc atg cca gga aac cgc ctg tac gtc cac ccg gac      672
Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp
    210                 215                 220

tcc ccc aac aca gga gcg cac tgg atg cgc cag gaa gtt tca ttt ggg      720
Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly
225                 230                 235                 240

aaa cta aag ctc aca aac aac aag ggg gcg tcc aac aat gtg acc cag      768
Lys Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln
                245                 250                 255

atg att gtg ctc cag tcc ctc cat aag tac cag ccc cgg ctg cat atc      816
Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile
                260                 265                 270

gtt gag gtg aac gac gga gag cca gag gca gcc tgc aac gct tcc aac      864
Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn
                275                 280                 285

acg cat atc ttt act ttc caa gaa acc cag ttc att gcc gtg act gcc      912
Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala
    290                 295                 300

tac cag aat gcc gag att act cag ctg aaa att gat aat aac ccc ttt      960
Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe
305                 310                 315                 320

gcc aaa gga ttc cgg gag aac ttt gag tcc atg tac aca tct gtt gac      1008
Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp
                325                 330                 335

acc agc atc ccc tcc ccg cct gga ccc aac tgt caa ttc ctt ggg gga      1056
Thr Ser Ile Pro Ser Pro Pro Gly Pro Asn Cys Gln Phe Leu Gly Gly
                340                 345                 350

gat cac tac tct cct ctc cta ccc aac cag tat cct gtt ccc agc cgc      1104
Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg
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Phe Tyr Pro Asp Leu Pro Gly Gln Ala Lys Asp Val Val Pro Gln Ala
    370                 375                 380

tac tgg ctg ggg gcc ccc cgg gac cac agc tat gag gct gag ttt cga   1200
Tyr Trp Leu Gly Ala Pro Arg Asp His Ser Tyr Glu Ala Glu Phe Arg
385                     390                 395                 400

gca gtc agc atg aag cct gca ttc ttg ccc tct gcc cct ggg ccc acc   1248
Ala Val Ser Met Lys Pro Ala Phe Leu Pro Ser Ala Pro Gly Pro Thr
                405                 410                 415

atg tcc tac tac cga ggc cag gag gtc ctg gca cct gga gct ggc tgg   1296
Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp
                420                 425                 430

cct gtg gca ccc cag tac cct ccc aag atg ggc ccg gcc agc tgg ttc   1344
Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe
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cgc cct atg cgg act ctg ccc atg gaa ccc ggc cct gga ggc tca gag   1392
Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu
    450                 455                 460

gga cgg gga cca gag gac cag ggt ccc ccc ttg gtg tgg act gag att   1440
Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile
465                 470                 475                 480

gcc ccc atc cgg ccg gaa tcc agt gat tca gga ctg ggc gaa gga gac   1488
Ala Pro Ile Arg Pro Glu Ser Ser Asp Ser Gly Leu Gly Glu Gly Asp
                485                 490                 495

tct aag agg agg cgc gtg tcc ccc tat cct tcc agt ggt gac agc tcc   1536
Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser
                500                 505                 510

tcc cct gct ggg gcc cct tct cct ttt gat aag gaa gct gaa gga cag   1584
Ser Pro Ala Gly Ala Pro Ser Pro Phe Asp Lys Glu Ala Glu Gly Gln
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Phe Tyr Asn Tyr Phe Pro Asn
    530                 535


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<213> Homo sapiens

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His Arg Tyr Phe Tyr Pro Glu Pro Gly Ala Gln Asp Ala Asp Glu Arg
        35                  40                  45
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Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val
    50   55   60

Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg
    65   70   75   80

Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro
              85   90   95

Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp
          100   105   110

Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro
       115   120   125

Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His
       130   135   140

Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr
145   150   155   160

Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly
              165   170   175

Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val
        180   185   190

Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly
       195   200   205

Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp
    210   215   220

Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly
225   230   235   240

Lys Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln
              245   250   255

Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile
        260   265   270

Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn
       275   280   285

Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala
       290   295   300

Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe
305   310   315   320

Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp
              325   330   335

Thr Ser Ile Pro Ser Pro Pro Gly Pro Asn Cys Gln Phe Leu Gly Gly
        340   345   350

Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg
       355   360   365

Phe Tyr Pro Asp Leu Pro Gly Gln Ala Lys Asp Val Val Pro Gln Ala

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            370                    375                    380
Tyr Trp Leu Gly Ala Pro Arg Asp His Ser Tyr Glu Ala Glu Phe Arg
385                 390                 395                 400
Ala Val Ser Met Lys Pro Ala Phe Leu Pro Ser Ala Pro Gly Pro Thr
                405                 410                 415
Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp
                420                 425                 430
Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe
                435                 440                 445
Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu
                450                 455                 460
Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile
465                 470                 475                 480
Ala Pro Ile Arg Pro Glu Ser Ser Asp Ser Gly Leu Gly Glu Gly Asp
                485                 490                 495
Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser
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Ser Pro Ala Gly Ala Pro Ser Pro Phe Asp Lys Glu Ala Glu Gly Gln
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Phe Tyr Asn Tyr Phe Pro Asn
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ccg atg ccg agt gac gag ggc cgg ggg ccc gga gcg gac caa cag cat    96
Pro Met Pro Ser Asp Glu Gly Arg Gly Pro Gly Ala Asp Gln Gln His
            20                  25                  30

cgt ttc ttc tat ccc gag ccg ggc gca cag gac ccg acc gat cgc cgc   144
Arg Phe Phe Tyr Pro Glu Pro Gly Ala Gln Asp Pro Thr Asp Arg Arg
        35                  40                  45

gca ggt agc agc ctg ggg acg ccc tac tct ggg ggc gcc ctg gtg cct   192
Ala Gly Ser Ser Leu Gly Thr Pro Tyr Ser Gly Gly Ala Leu Val Pro
    50                  55                  60

gcc gcg ccg ggt cgc ttc ctt gga tcc ttc gcc tac ccg ccc cgg gct   240
Ala Ala Pro Gly Arg Phe Leu Gly Ser Phe Ala Tyr Pro Pro Arg Ala
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         65                    70                    75                    80

cag gtg gct ggc ttt ccc ggg cct ggc gag ttc ttc ccg ccg ccc gcg   288
Gln Val Ala Gly Phe Pro Gly Pro Gly Glu Phe Phe Pro Pro Pro Ala
                     85                    90                    95

ggt gcg gag ggc tac ccg ccc gtg gat ggc tac cct gcc cct gac ccg   336
Gly Ala Glu Gly Tyr Pro Pro Val Asp Gly Tyr Pro Ala Pro Asp Pro
                100                   105                   110

cgc gcg ggg ctc tac cca ggg ccg cgc gag gac tac gca ttg ccc gcg   384
Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro Ala
            115                   120                   125

ggg ttg gag gtg tct ggg aag ctg aga gtc gcg ctc agc aac cac ctg   432
Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Ser Asn His Leu
        130                   135                   140

ttg tgg tcc aag ttc aac cag cac cag aca gag atg atc atc act aag   480
Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr Lys
145                   150                   155                   160

caa gga cgg cga atg ttc cca ttc ctg tcc ttc acc gtg gcc ggg ctg   528
Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly Leu
                165                   170                   175

gag ccc aca agc cat tac agg atg ttt gtg gat gtg gtc ttg gtg gac   576
Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val Asp
                180                   185                   190

cag cac cac tgg cgg tac cag agc ggc aag tgg gtg cag tgt gga aag   624
Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly Lys
            195                   200                   205

gca gaa ggc agc atg cca ggg aac cgc tta tat gtc cac cca gac tcc   672
Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp Ser
210                   215                   220

ccc aac acc gga gcc cac tgg atg cgc cag gaa gtt tca ttt ggg aag   720
Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly Lys
225                   230                   235                   240

cta aag ctc acc aac aac aag ggg gct tcc aac aat gtg acc cag atg   768
Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln Met
                245                   250                   255

atc gtc ctg cag tct ctc cac aag tac cag ccc cgg ctg cac atc gtg   816
Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile Val
            260                   265                   270

gag gtg aat gat gga gag cca gag gct gcc tgc agt gct tct aac aca   864
Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Ser Ala Ser Asn Thr
            275                   280                   285

cac gtc ttt act ttc caa gag acc cag ttc att gca gtg act gcc tac   912
His Val Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala Tyr
        290                   295                   300

cag aac gca gag atc act cag ctg aaa atc gac aac aac ccc ttt gcc   960
Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe Ala
305                   310                   315                   320
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aaa gga ttc cgg gag aac ttt gag tcc atg tac gca tct gtt gat acg    1008
Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Ala Ser Val Asp Thr
            325             330             335

agt gtc ccc tcg cca cct gga ccc aac tgt caa ctg ctt ggg gga gac    1056
Ser Val Pro Ser Pro Pro Gly Pro Asn Cys Gln Leu Leu Gly Gly Asp
            340             345             350

ccc ttc tca cct ctt cta tcc aac cag tat cct gtt ccc agc cgt ttc    1104
Pro Phe Ser Pro Leu Leu Ser Asn Gln Tyr Pro Val Pro Ser Arg Phe
            355             360             365

tac ccc gac ctt cca ggc cag ccc aag gat atg atc tca cag cct tac    1152
Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr
    370             375             380

tgg ctg ggg aca cct cgg gaa cac agt tat gaa gcg gag ttc cga gct    1200
Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala
385             390             395             400

gtg agc atg aag ccc aca ctc cta ccc tct gcc ccg ggg ccc act gtg    1248
Val Ser Met Lys Pro Thr Leu Leu Pro Ser Ala Pro Gly Pro Thr Val
            405             410             415

ccc tac tac cgg ggc caa gac gtc ctg gcg cct gga gct ggt tgg ccc    1296
Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro
            420             425             430

gtg gcc cct caa tac ccg ccc aag atg agc cca gct ggc tgg ttc cgg    1344
Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg
            435             440             445

ccc atg cga act ctg ccc atg gac ccg ggc ctg gga tcc tca gag gaa    1392
Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu
    450             455             460

cag ggc tcc tcc ccc tcg ctg tgg cct gag gtc acc tcc ctc cag ccg    1440
Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro
465             470             475             480

gag ccc agc gac tca gga cta ggc gaa gga gac act aag agg agg agg    1488
Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg
            485             490             495

ata tcc ccc tat cct tcc agt ggc gac agc tcc tct ccc gct ggg gcc    1536
Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala
            500             505             510

cct tct cct ttt gat aag gaa acc gaa ggc cag ttt tat aat tat ttt    1584
Pro Ser Pro Phe Asp Lys Glu Thr Glu Gly Gln Phe Tyr Asn Tyr Phe
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Pro Asn
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Arg Phe Phe Tyr Pro Glu Pro Gly Ala Gln Asp Pro Thr Asp Arg Arg
         35                  40                  45

Ala Gly Ser Ser Leu Gly Thr Pro Tyr Ser Gly Gly Ala Leu Val Pro
     50                  55                  60

Ala Ala Pro Gly Arg Phe Leu Gly Ser Phe Ala Tyr Pro Pro Arg Ala
 65                  70                  75                  80

Gln Val Ala Gly Phe Pro Gly Pro Gly Glu Phe Phe Pro Pro Pro Ala
                 85                  90                  95

Gly Ala Glu Gly Tyr Pro Pro Val Asp Gly Tyr Pro Ala Pro Asp Pro
             100                 105                 110

Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro Ala
         115                 120                 125

Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Ser Asn His Leu
     130                 135                 140

Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr Lys
145                 150                 155                 160

Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly Leu
             165                 170                 175

Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val Asp
         180                 185                 190

Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly Lys
         195                 200                 205

Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp Ser
210                 215                 220

Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly Lys
225                 230                 235                 240

Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln Met
             245                 250                 255

Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile Val
             260                 265                 270

Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Ser Ala Ser Asn Thr
             275                 280                 285

His Val Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala Tyr
     290                 295                 300

Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe Ala
305                 310                 315                 320
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Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Ala Ser Val Asp Thr
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Ser Val Pro Ser Pro Pro Gly Pro Asn Cys Gln Leu Leu Gly Gly Asp
            340             345             350

Pro Phe Ser Pro Leu Leu Ser Asn Gln Tyr Pro Val Pro Ser Arg Phe
            355             360             365

Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr
370             375             380

Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala
385             390             395             400

Val Ser Met Lys Pro Thr Leu Leu Pro Ser Ala Pro Gly Pro Thr Val
            405             410             415

Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro
            420             425             430

Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg
            435             440             445

Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu
450             455             460

Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro
465             470             475             480

Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg
            485             490             495

Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala
            500             505             510

Pro Ser Pro Phe Asp Lys Glu Thr Glu Gly Gln Phe Tyr Asn Tyr Phe
            515             520             525

Pro Asn
530
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